

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 45.172 XIANG	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT / EP 03 / 07394	International filing date (day/month/year) 09/07/2003	(Earliest) Priority Date (day/month/year) 10/07/2002
Applicant XIANG SRL		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

5. _____

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP 03/07394

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F24F1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F24F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 011, no. 050 (M-562), 17 February 1987 (1987-02-17) -& JP 61 213529 A (MATSUSHITA SEIKO CO LTD), 22 September 1986 (1986-09-22) abstract figure 3	1-3, 7, 8
A	---	4-6
X	FR 2 349 105 A (RIELLO CONDIZIONATORI GIORDANO) 18 November 1977 (1977-11-18) page 5, line 25 -page 9, line 24 claims 1-4, 6-8 figures 1-5	1, 2, 4, 7, 8
A	---	3, 5, 6
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

25 November 2003

Date of mailing of the international search report

02/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

CORREIA DOS REIS, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/07394

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 637 223 A (SHIRAISHI AKIRA ET AL) 20 January 1987 (1987-01-20) column 2, line 53 -column 3, line 2 claim 1 figure 3	1
A	---	2,3,5-8
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 545 (M-1054), 4 December 1990 (1990-12-04) -& JP 02 230032 A (SANYO ELECTRIC CO LTD), 12 September 1990 (1990-09-12) abstract figure 1	1
A	---	2-4
A	US 3 279 209 A (NIKOLAUS LAING) 18 October 1966 (1966-10-18) figures 1,14,15	1-3,5-8
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) -& JP 2001 141298 A (MITSUBISHI HEAVY IND LTD), 25 May 2001 (2001-05-25) abstract figure 2C	1-3,5,6
A	FR 1 303 675 A (LAING M NIKOLAUS) 21 January 1963 (1963-01-21) the whole document	1-3
A	US 5 551 508 A (DEVOS RICHARD ET AL) 3 September 1996 (1996-09-03) figures 1,2,5,7	1,5,6
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) -& JP 08 219541 A (MATSUSHITA ELECTRIC IND CO LTD), 30 August 1996 (1996-08-30) abstract figures 1-7	
A	US 2 917 905 A (MCGRATH WILLIAM L ET AL) 22 December 1959 (1959-12-22) figures 1-4	
A	WO 01 07837 A (BOTTARO ORESTE ;OLIMPIA SPLENDID S P A (IT)) 1 February 2001 (2001-02-01) figures 2,3	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP/07394

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 61213529	A	22-09-1986	NONE		
FR 2349105	A	18-11-1977	IT BR DE ES FR NL US ZA	1059231 B 7702452 A 2635136 A1 457701 A1 2349105 A1 7703497 A 4067204 A 7702356 A	31-05-1982 17-01-1978 19-01-1978 01-05-1978 18-11-1977 25-10-1977 10-01-1978 29-03-1978
US 4637223	A	20-01-1987	JP KR	61027432 A 9002184 B1	06-02-1986 02-04-1990
JP 02230032	A	12-09-1990	JP	2594148 B2	26-03-1997
US 3279209	A	18-10-1966	US	3200609 A	17-08-1965
JP 2001141298	A	25-05-2001	NONE		
FR 1303675	A	21-01-1963	NONE		
US 5551508	A	03-09-1996	US CA JP WO	5404939 A 2103053 A1 6511076 T 9222781 A1	11-04-1995 11-12-1992 08-12-1994 23-12-1992
JP 08219541 8	A		NONE		
US 2917905	A	22-12-1959	NONE		
WO 0107837	A	01-02-2001	IT AU EP WO	RE990076 A1 5847000 A 1116001 A1 0107837 A1	29-01-2001 13-02-2001 18-07-2001 01-02-2001